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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,355	12/21/2001	Jerome Peyrelevade	05725.1008-00	4653
22852	7590	08/06/2007		
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			EXAMINER ZURITA, JAMES H	
			ART UNIT 3625	PAPER NUMBER
			MAIL DATE 08/06/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/024,355	<b>Applicant(s)</b> PEYRELEVADE ET AL.	
	<b>Examiner</b> James H. Zurita	<b>Art Unit</b> 3625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 02 May 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-72 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-72 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Prosecution History***

On 21 December 2001, applicant filed the instant application. Applicant claims priority to provisional application 60/325559, filed 1 October 2001.

On 3 April 2003, the application was published as PG-PUB 20030065578.

On 1 April 2005, the Examiner issued an election/restriction requirement.

On 2 May 2005, applicant elected claims 1, 2, 18-20 with traverse.

On 14 July 2005, the Examiner issued a non-final rejection of claims 1-2 as anticipated by Voticky et al. (US 6801216), and claims 18-20 as unpatentable over Voticky in view of Orpaz (US PG-PUB 2002/0071604).

After further consideration and based upon counsel's persuasive arguments in a phone interview of 30 October 2005, the Examiner vacates the Election/Restriction requirement of 1 April 2005 as well as the non-final Office Action of 14 July 2005.

Claims 1-72 will be examined. Claims 1, 22, 36, 55, 68 and 72 are independent. The various groups are treated as variants of the invention.

### ***Priority***

This application claims benefit to provisional application 60/325559:

Artificial Intelligence For Use In Cosmetic And Non-Cosmetic Environments, Application No. 60/325,561 (provisional filed Oct. 1, 2001); and Methods And Systems For Cosmetic And Non-Cosmetic Product Selection, Application No. 60/325,559 (provisional filed Oct. 1, 2001).

Provisional application 60/325559 lists inventors: Giacchetti, Rubinstenn, Pruche, and Peyrelevade.

It is not clear whether Applicant also claims priority from provisional application 60/325561, filed 1 October 2001, with Olivier de la Charriere the only named inventor.

The instant non-provisional application lists Peyrelevade and Naudin.

Applicant is requested to identify where in the prior applications the features of the present invention are first disclosed. Since the provisional applications also list different inventors than the present application (and with different inventors), the examiner also requests the Applicant identify which inventor(s) contributed which features claimed in the present application that were also present in one or more prior application with different inventors.

### ***Claim Objections***

Regarding claims 36 and 44, the phrase "means for" appears to be an attempt to invoke 35 U.S.C. 112, sixth paragraph, to recite claim element as a means for performing a specified function. However, since the disclosures provide no structural support for the claims, it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See *Ex parte Klumb*, 159 USPQ 694 (Bd. App. 1967).

purposes of this examination, the claim will be interpreted to *not* invoke the sixth paragraph. Prior art will be interpreted to read on applicant's claimed limitations where prior art discloses that the functions are being performed.

### ***Claim Rejections - 35 USC § 112***

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The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 23, 24, 56, 57 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 23, 24, 56, 57 refer to artificial intelligence, which is only briefly mentioned, without elaboration, in the disclosures of the instant application and in the provisional applications:

[0045] "Artificial intelligence" is used herein to broadly describe any computationally intelligent systems that combine knowledge, techniques, and methodologies. An AI engine may be any system configured to apply knowledge and that can adapt itself and learn to do better in changing environments. Thus, the AI engine may employ any one or combination of the following computational techniques: neural network, constraint program, fuzzy logic, classification, conventional artificial intelligence, symbolic manipulation, fuzzy set theory, evolutionary computation, cybernetics, data mining, approximate reasoning, derivative-free optimization, decision trees, and/or soft computing. Employing any computationally intelligent techniques, the AI engine may learn to adapt to unknown and/or changing environment for better performance.

Claims 23, 24, 56 and 57 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

***Claim Rejections - 35 USC § 102***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-10, 13-17, 21-22, 25, 27-44, 47-55, 58, 60-72 are rejected under 35 U.S.C. 102(e) as being anticipated by Voticky et al. (US 6801216).

***As per claim 1***, Voticky discloses selecting beauty products, including:  
accessing a facial image. See, for example, references to various picture images, as in Fig. 9 and related text.  
receiving from the user a selection of at least one beauty product for simulated application to the facial image. See, for example, at least Fig. 10 and related text, concerning selection references 222 and 224.  
simulating the at least one **selected** beauty product on the facial image. See, for example, at least Fig. 9 and references to overlays, as in an "After picture."  
determining a recommended beauty product based at least in part on the at least one selected product. See, for example, at least Col. 11, lines 26-53, concerning product suggestions and recommendations.

simulating the at least one recommended beauty product on the facial image.  
See, for example, at least Fig. 9, overlay images, "after picture".

***As per claim 2***, Voticky discloses causing the facial image to be displayed to the user. See, for example, at least Fig. 9 and related text.

**As per claim 3**, Voticky discloses that the recommended beauty product is simulated on the facial image while the simulation of the at least one selected product appears on the facial image. See, for example, at least Col. 11, lines 26-37.

**As per claim 4**, Voticky discloses that causing the facial image to be displayed includes providing software that facilitates display of the facial image. See, for example, at least Col. 1, lines 18-42.

**As per claim 5**, Voticky discloses that the facial image is an image of the user's face. See, for example, references to picture of a person, as in Col. 1, lines 33-51.

**As per claim 6**, Voticky discloses processing an initial facial image in a manner to thereafter permit simulated application of a beauty product to a selected portion of the facial image. See, for example, at least Col. 11, lines 6-20, which allows for selective application to various portions of the image.

**As per claim 7**, Voticky discloses receiving from the user an affirmative request seeking a recommendation, and wherein the simulation of the recommended product appears on the facial image after the user affirmatively seeks a recommendation. See, for example, at least Col. 11, lines 26-37.

**As per claim 8**, Voticky discloses that the request identifies at least one of a brand, price, store, and product characteristic. See, for example, at least Col. 10, lines 8-16 and references to selection of product lines. See also references to manufacturer, as in Col. 11, lines 28-53.

**As per claim 9**, Voticky discloses displaying a button activatable to cause a recommendation to be displayed. See, for example, at least Col. 3, lines 32-40.

**As per claim 10**, Voticky discloses sequentially simulating alternative recommendations. See, for example, at least Col. 9, lines 16-29.

For claims 11-12, see 103 rejection.

**As per claim 13**, Voticky discloses that the recommended product is complementary to the selected product, and maintaining a data structure identifying products, and wherein determining a recommended beauty product is accomplished by accessing the data structure. See, for example, at least Col. 8, line 61-Col. 9, line 14.

**As per claim 14**, Voticky discloses that the data structure is populated with information derived from at least one of advice of beauty experts, user preference data, user purchase history, and survey data. See, for example, references to professional version, as in Fig. 4.

**As per claim 15**, Voticky discloses eliciting personal information from the user, wherein the recommendation is a function of both at least one selected product and the personal information. (see at least references to a user's face, as in Col. 7, lines 21-30).

**As per claim 16**, Voticky discloses that personal information includes at least one of age, skin type, skin texture, skin tone, wrinkles, hair color, hair style, hair condition, eye color, allergies, facial features, demographics, user preferences, and purchase history. (See, for example, at least Col.1, lines 33-51).

**As per claim 17**, Voticky discloses providing the user with an ability to select a basis for a recommendation, the basis being at least one of consumer survey data, consumer buying preferences, and expert advice (See, for example, Fig.4 and related text, concerning professional and customer versions).



**For Claims 18-20**, see 103 rejection.

***As per claim 21***, Voticky discloses a network environment, wherein accessing the facial image and receiving the user selection occur via a network and in at least one location remote from a location of the user. See, for example, at least Fig. 1 and related text concerning network.

***Claim 22***, an independent claim, is rejected on the same grounds as claim 1.

**For Claims 23-24**, see rejection under 103

***As per claim 25***, Voticky discloses providing the user with an option to trigger a simulation includes providing the user with an option to trigger a simulation of both the selected beauty product and the complementary beauty product. See at least references to selecting pictures, as in Col. 2, lines 17-40.

**For Claim 26** see 103 rejection, below.

***Claim 27*** is rejected on the same grounds as claim 10.

***As per claim 28***, Voticky discloses providing the user with an option to change a color of the selected beauty product. See, for example, at least Col 10, lines 8-24.

***As per claim 29***, Voticky discloses providing users with options to change a color of complementary beauty product. See, for example, at least Col 10, lines 8-24.

***As per claim 30***, Voticky discloses that the option to change the color is based on at least one of a color bar, color palette, progressive color adjuster, and textual entry. See, for example, at least Col. 10, lines 8-24.

**As per claim 31, Voticky** discloses that the facial image includes at least one of a photograph, simulation, and graphical representation. See, for example, at least Fig. 10 and related text, and other references to graphic layers and picture.

**Claim 32** is rejected on the same grounds as claim 21.

**As per claim 33, Voticky** discloses receiving a request from the user for an alternative complementary product recommendation. See at least Col. 8, lines 5-14.

**Claim 34** is rejected on the same grounds as claim 22.

**As per claim 35, Voticky** discloses providing the user with an option to change a color of at least one of the selected beauty product, the recommended complementary beauty product, and the alternative complementary product. See, for example, at least Col 10, lines 8-24.

**Claim 36**, an Independent claim, is rejected on the same grounds as claim 1.

Claim 37 is rejected on the same grounds as claim 3.

Claim 38 is rejected on the same grounds as claim 4.

Claim 39 is rejected on the same grounds as claim 5.

Claim 40 is rejected on the same grounds as claim 6.

Claim 41 is rejected on the same grounds as claim 7.

Claim 42 is rejected on the same grounds as claim 8.

Claim 43 is rejected on the same grounds as claim 9.

Claim 44 is rejected on the same grounds as claim 10.

For claims 45-46, see 103 rejection.

Claim 47 is rejected on the same grounds as claim 13.

Claim 48 is rejected on the same grounds as claim 14.

Claim 49 is rejected on the same grounds as claim 15.

Claim 50 is rejected on the same grounds as claim 16.

Claim 51 is rejected on the same grounds as claim 17.

***As per claim 52***, Voticky discloses that the display presents two facial images, and wherein differing recommended products are displayed on each image. See at least Col. 8, lines 4-23.

***As per claim 53***, Voticky discloses that multiple facial images are simultaneously displayed. For example, Col. 8, lines 4-23.

***As per claim 54***, Voticky discloses that the simulator visually simulates a differing combination of beauty products on each facial image. See, for example, at least Col. 8, line 61-Col. 9, line 28.

***Claim 55***, an independent claim, is rejected on the same grounds as claim 1.

For Claims 56-57, see 103 rejection, below.

***Claim 58*** is rejected on the same grounds as claims 22 and 25.

For Claim 59, see 103 rejection, below.

***Claim 60*** is rejected on the same grounds as claim 27.

***Claim 61*** is rejected on the same grounds as claim 28.

***Claim 62*** is rejected on the same grounds as claim 29.

***Claim 63*** is rejected on the same grounds as claim 30.

***Claim 64*** is rejected on the same grounds as claim 31.

***Claim 65*** is rejected on the same grounds as claim 33.

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**Claim 66** is rejected on the same grounds as claim 35.

**As per claim 67**, Voticky discloses a storage location for storing the facial image.

See, for example, at least Fig. 2 and related text.

**Claim 68**, an independent claim, is rejected on the same grounds as claim 1.

**As per claim 69**, Voticky discloses that the personal information includes an image of the user on which the simulating occurs. See, for example, at least Fig. 10 and related text, and other references to graphic layers and picture.

**As per claim 70**, Voticky discloses processing the image of the user to determine facial characteristics, and wherein determining takes into account the facial characteristics. See, for example, at last Col. 11, lines 21-25.

**Claim 71** is rejected on the same grounds as claim 21.

**Claim 72** is rejected on the same grounds as claim 1.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11-12, 18-20, 26, 45, 46, 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Voticky, above, in view of Orpaz et al. (US 6937755).

**As per claim 11**, Voticky discloses causing the facial image to be displayed to the user (See, for example, at least Fig. 12 and related text). Voticky does not

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specifically disclose that a first alternative simulated recommendation is displayed simultaneously on the facial image with a display of the at least one selected product, and wherein thereafter a second alternative simulated recommendation is displayed simultaneously on the facial image with a display of the at least one selected product.

This feature is disclosed by **Orpaz**, Fig. 4 and related text, as in Col. 4, lines 37-50. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Voticky and Orpaz to disclose that a first alternative simulated recommendation is displayed simultaneously on the facial image with a display of the at least one selected product, and wherein thereafter a second alternative simulated recommendation is displayed simultaneously on the facial image with a display of the at least one selected product.

One of ordinary skill in the art at the time the invention was made would have been motivated to combine Voticky and Orpaz to disclose that a first alternative simulated recommendation is displayed simultaneously on the facial image with a display of the at least one selected product, and wherein thereafter a second alternative simulated recommendation is displayed simultaneously on the facial image with a display of the at least one selected product for the obvious reason that a customer may wish to view various looks at the same time.

**Claim 12** is rejected on the same grounds as claim 11.

**Claim 18** is rejected on the same grounds as claim 11.

**Claim 19** is rejected on the same grounds as claim 11.

**As per claim 20**, Voticky discloses that each facial image has a differing combination of beauty products simulated thereon. See, for example, at least Col. 8, line 61 – Col. 9, line 15).

**Claim 26** is rejected on the same grounds as claim 11.

**Claim 45** is rejected on the same grounds as claim 11.

**Claim 46** is rejected on the same grounds as claim 12.

**Claim 59** is rejected on the same grounds as claim 11.

Claims 23-24, 56-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Voticky, Orpaz and Official Notice.

Wicky and Orpaz do not specifically disclose the use of Artificial Intelligence.

Official Notice is taken that it was old and well know at the time the invention was made to analyze historical data to provide guidance concerning consumer preferences.

It would have been obvious to one of ordinary skill at the time the invention was made to combine Voticky, Orpaz and knowledge of one of ordinary skill to disclose identifying a complementary product is performed using an artificial intelligence engine (as in claims 23 and 56) and to disclose that the artificial intelligence engine is based on at least one of a neural network, constraint program, fuzzy logic, classification, conventional artificial intelligence, symbolic manipulation, fuzzy set theory, evolutionary computation, cybernetics, data mining, approximate reasoning, derivative-free optimization, and soft computing (claims 24 and 57).

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One of ordinary skill at the time the invention was made would have been motivated to combine Voticky, Orpaz and knowledge of one of ordinary skill to disclose identifying a complementary product is performed using an artificial intelligence engine (as in claims 23 and 56) and to disclose that the artificial intelligence engine is based on at least one of a neural network, constraint program, fuzzy logic, classification, conventional artificial intelligence, symbolic manipulation, fuzzy set theory, evolutionary computation, cybernetics, data mining, approximate reasoning, derivative-free optimization, and soft computing (claims 24 and 57) for the obvious reason that by having information concerning consumer preferences, a company is better able to serve the public, and be able to provide a powerful and persuasive marketing tool.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

David Pollitt, "Logistics management at the threshold of the new millenium"  
International Journal of Physical Distribution & Logistics Management. Bradford: 1998.  
Vol. 28, Iss. 3; pg. 167, 40 pages.

Gael Fashingbauer Cooper, Tips on buying beauty products online; [METRO Edition], . Star Tribune. Minneapolis, Minn.: Nov 22, 1999. pg. 01.E, 4 pages.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to James H. Zurita whose telephone number is 571-272-6766. The examiner can normally be reached on 8a-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Smith can be reached on 571-272-6763. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**James Zurita**  
**Primary Examiner**  
**Art Unit 3625**  
27 July 2007

  
JAMES ZURITA  
PRIMARY EXAMINER